Specifications

DVS 304 DVI Series

Video input

Number/signal type	1 RGBHV, RGBS, RGsB, RGBcvS, component video (YUVi or YUVp/HDTV), S-video, composite video; pass-through is available for RGBHV, RGBS, RGsB signal types 1 composite video, S-video, component video (YUVi or YUVp/HDTV) 1 SDI (optional, DVS 304 DVI D and DVS 304 DVI AD only) 1 composite video
Connectors	1 female 15-pin HD: RGBHV, RGBS, RGBcvS, component video, S-video, composite video 3 female BNC: component video, S-video, composite video 1 female BNC: SDI (optional, DVS 304 DVI D and DVS 304 DVI AD only) 1 female 4-pin mini DIN: S-video 1 female BNC: composite video
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.0 V to 1.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	15 kHz to 100 kHz
Vertical frequency	50 Hz to 120 Hz
Resolution range	640x480 to 1920x1200, 480p, 576p, 720p, 1080i, 1080p
Return loss	<-30 dB @ 5 MHz
DC offset (max. allowable)	1.3V

Video processing

Decoder	9 bit digital
Digital sampling	24 bit, 8 bits per color; 13.5 MHz standard (video) 194 MHz standard (RGB)
Colors	16.78 million

Video output

Number/signal type	2 scaled or pass-through RGBHV, RGBS, RGsB or scaled component video (Y, R-Y, B-Y) 1 scaled DVI-I (DVI 1.0, HDMI 1.2)
Connectors	5 female BNC 1 female DVI-I
Nominal level	1 Vp-p for Y of component video and for G of RGsB 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	0.0 V to 1.0 Vp-p
Impedance	75 ohms
Scaled resolution	640x480[1,2,3,4,5,6], 800x600[1,2,3,4,5,6], 852x480[1,2], 1024x768[1,2,3,4], 1024x852[1,2,3,4], 1024x1024[1,2,3],1280x768[1,2,3,4], 1280x800[1,2], 1280x1024[1,2,3], 1360x765[1,2,3], 1365x768[1,2,3], 1365x1024[1,2], 1366x768[1,2,3],1400x1050[1,2], 1440x900[2,3], 1600x1200[1,2], 1680x1050[2], HDTV 480p[2 7], 576p[1,5], 720p[1,2 7], 1080i[1,2 7], 1080p[1,2,3 7], 1080p Sharp[2], 1080p CVT[2], and 1920x1200[2] [1] = at 50 Hz, [2] = at 60 Hz, [3] = at 72 Hz (75 Hz for 1440x900, 24 Hz for 1080p), [4] = at 96 Hz, [5] = 100 Hz, [6] = 120 Hz, [7] = 59.94 Hz

Sync

Input type	(RGBHV, RGBS, RGsB) pass-through, RGBHV, RGBS, RGsB, RGBcvS, bi-level or tri-level component video
Output type	RGBHV, RGBS, RGsB, and component video tri-level
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM Optional SDI input: SMPTE 259M-C
Input level	2.75 V to 5.0 Vp-p for RGBHV or RGBS 0.6 Vp-p for component video tri-level sync 0.3 Vp-p for component video bi-level sync or RGsB
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	90 ohms
Max. input voltage	5 Vp-p
Max. propagation delay	45 ns
Polarity	Positive or negative (selectable)

Audio — DVS 304 DVI A, DVS 304 DVI AD

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.6 dB
THD + Noise	0.03% @ 1 kHz at nominal level, 0 dB gain
S/N	>90 dB at maximum output (unweighted)
Crosstalk	<-103 dB @ 1 kHz, fully loaded; <-88 dB, wideband (20 Hz to 20 kHz), fully loaded
Stereo channel separation	>80 dB @ 1 kHz
CMRR	>55 dB @ 20 Hz to 20 kHz

Audio input — DVS 304 DVI A, DVS 304 DVI AD

Number/signal type	4 stereo, balanced/unbalanced
Connectors	(4) 3.5 mm captive screw connectors, 5 pole
Impedance	>18k ohms unbalanced/balanced, DC coupled
Nominal level	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level	+18 dBu, (balanced or unbalanced) at 1%THD+N
Input gain adjustment	–15 dB to +9 dB, adjustable per input

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output — DVS 304 DVI A, DVS 304 DVI AD

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (Hi-Z)	>+21 dBu, balanced or unbalanced at 1% THD+N
Maximum level (600 ohm)	>+15 dBm, balanced or unbalanced at 1% THD+N
Output volume range	0 to 100 (-52 dB to 0 dB) in 0.5 dB increments from steps 25 to 100, 1 dB increments from step 0 to 24

Control/remote — decoder/scaler

Serial control port	RS-232, 1 female 9-pin D connector
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = input 1 select 2 = Tx 3 = Rx 4 = input 2 select 5 = GND 6 = input 3 select 7 = input 4 select 8 = n/a 9 = n/a
Ethernet control port	1 female RJ-45 connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, UDP, DHCP, HTTP, SMTP, Telnet

Contact closure	1 female 9-pin D connector (same as RS-232 connector)
Contact closure pin configurations	See pins 1, 4, 5, 6, and 7 above
IR controller module	Extron IR 902 (optional)
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer®, Telnet

General

Power	100 VAC to 240 VAC, 50-60 Hz, 30 watts, internal
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	
DVS 304 DVI, DVS 304 DVI D	Convection, vents on sides and top
DVS 304 DVI A, DVS 304 DVI AD	Convection, vents on sides
Mounting	
Rack mount	
DVS 304 DVI, DVS 304 DVI D	Yes, with optional rack shelf kit
DVS 304 DVI A, DVS 304 DVI AD	Yes, with included brackets
Furniture mount	
DVS 304 DVI, DVS 304 DVI D	Yes, with optional under-desk or through-desk mounting kit
Enclosure type	Metal
Enclosure dimensions	
DVS 304 DVI, DVS 304 DVI D	1.75" H x 8.75" W x 10.5" D (1U high, half rack wide) (4.4 cm H x 22.2 cm W x 26.7 cm D) (Depth excludes connectors and knobs.)
DVS 304 DVI A, DVS 304 DVI AD	1.75" H x 17.5" W x 10.5" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 26.7 cm D) (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	
DVS 304 DVI, DVS 304 DVI D	3.3 lbs (1.5 kg)
DVS 304 DVI A	6.5 lbs (2.9 kg)
DVS 304 DVI AD	6.8 lbs (3.1 kg)
Shipping weight	
DVS 304 DVI, DVS 304 DVI D	6 lbs (3 kg)
DVS 304 DVI A, DVS 304 DVI AD	11 lbs (5 kg)
DIM weight	
DVS 304 DVI A, DVS 304 DVI AD	12 lbs (6 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

Specifications are subject to change without notice.

8.0-010411-D20*. . / - . /